US Department of Transportation Pipeline and Hazardous Materials Safety Administration Office of Pipeline Safety

Hazardous Liquid IMP Field Verification Inspection 49 CFR Parts 195.450 and 195.452

General Notes:

- 1. This Field Verification Inspection is performed on field activities being performed by an Operator in support of their Integrity Management Program (IMP).
- 2. This is a two part inspection:
 - i. A review of applicable Operations and Maintenance (O&M) and IMP processes and procedures applicable to the field activity being inspected to ensure the operator is implementing their O&M and IMP Manuals in a consistent manner.
 - ii. A Field Verification Inspection to determine that activities on the pipeline and facilities are being performed in accordance with written procedures or guidance.
- 3. Not all parts of this form may be applicable to a specific Field Verification Inspection, and only those applicable portions of this form need to be completed. The applicable portions are identified in the Table below by a check mark. All sections of the form must be marked either "Satisfactory"; "Unsatisfactory"; or Not Checked ("N/C").

Operator Inspected:	
Op ID:	

Perform Activity	Activity	Activity Description
(denoted by mark)	Number	
	1A	In-Line Inspection
	1B	Hydrostatic Pressure Testing
	1C	Other Assessment Technologies
	2A	Remedial Actions
	2B	Remediation – Implementation
	3A	Installed Leak Detection System Information
	3B	Installed Emergency Flow Restrictive Device
	4A	Field Inspection for Verification of HCA Locations
	4B	Field Inspection for Verification of Anomaly Digs
	4C	Field Inspection to Verify adequacy of the Cathodic Protection
		System
	4D	Field inspection for general system characteristics

Hazardous Liquid IMP Field Verification Inspection Form

Name of Operator:				
Headquarters Address:				
Company Official:				
Phone Number:				
Fax Number:				
Operator ID:				
Activity ID:				
Persons Interviewed	Title	Pho	one No.	E-Mail
:	Primary Conta	act		
				_
OPS/State Representative(s):		Dates of Insp	ection:	
Inspector Signature:				
System Descriptions:				
Site Location of field activities:				
Sitt Location of ficia activities.				
Key Documents Reviewed:				
Document Title		Document No.	Rev. No	Date

Part 1 - Performance of Integrity Assessments

1A. In-Line Inspection (Protocol 3.04 & 3.05)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that Operator's O&M and IMP procedural				
requirements (e.g. launching/receiving tools) for				
performance of ILI were followed.				
Verify Operator's ILI procedural requirements were fol	lowed (e.g.	operation of t	rap	
for launching and receiving of pig, operational control				
	,,	11 1		
Verify ILI tool systems and calibration checks before re	ın were perf	formed to ensu	ıre	
tool was operating correctly prior to assessment being p				
Verify ILI complied with Operator's procedural require	ments for p	erformance of	a	
successful assessment (e.g. speed of travel within limits	s), as approp	riate.		
Document ILI Tool Vendor and Tool type (e.g. MFL, I). Document		
other pertinent information about Vendor and Tool, as a	appropriate			
Other:				
1B. Hydrostatic Pressure Testing (Protocol 3.06)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that hydrostatic pressure tests complied with	Satisfactory	Clisatisfactory	IV/C	Notes.
Part 195 Subpart E requirements.				
Review documentation of Hydrostatic Pressure Test pa	rameters and	d results Ver	ifv.	
test was performed without leakage and in compliance			11 y	
requirements.	widi i dit 19	3 Suopuri L		
requirements.				
Review test procedures and records and verify test acce	ntability and	d validity.		
The first procedures and records and ferring test acce	pulling uni	o , arrarej .		
Review determination of the cause of hydrostatic test fa	ilures, as ar	propriate.		
		FF		
Document Hydrostatic Pressure Test Vendor and equip	ment used, a	as appropriate		
Other:				
1C. Other Assessment Technologies (Protocol 3.07)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that application of "Other Assessment				
Technology" complied with Operator's requirements,				
that appropriate notifications had been submitted to				
OPS, and that appropriate data was collected.				
Review documentation of notification to OPS of Opera			r	
Assessment Technology". Verify compliance with Ope				
requirements and performance of assessment within par	rameters ori	ginally submit	tted	
to OPS.				
XX 10 1				
Verify that appropriate tests are being performed and ap	propriate d	ata is being		
collected, as appropriate.				
0.1				
Other.				

Part 2 - Remediation of Anomalies

AA D 19 1 A 49 D (D 4 144)	[a .: c .	TT .: C .	NI/C	NT-4
2A. Remedial Actions – Process (Protocol 4.1)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that remedial actions complied with the				
Operator's procedural requirements.	· C · · · · · · · · · · · · · · · · · ·	1:		
Witness anomaly remediation and verify documentation				
Exposed Pipe Reports, Maintenance Report, any Data A			У	
compliance with Operator's O&M Manual and Part 195	requiremen	nts.		
V. 'C 4.4 O	·			
Verify that Operator's procedures were followed in loca				
anomaly (e.g. any required pressure reductions, line local				
approximate location of anomaly for excavation, excava	mon, coam	ig removai).		
Varify that are a degree fallowed in macroscies the				
Verify that procedures were followed in measuring the				
severity of the anomaly, and determining remaining stre	engun of the	pipe.		
Other				
Other:				
2D Domodiction Implementation (Ductocal 4.02)	Catiofastamy	Lingatisfactory	N/C	Notasi
2B. Remediation - Implementation (Protocol 4.02)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that the operator has adequately implemented				
its remediation process and procedures to effectively				
remediate conditions identified through integrity				
assessments or information analysis.	[4	2		
Verify that repairs were completed in accordance with t		s prioritized		
schedule and within the time frames allowed in §195.45	2(h).			
De la constanta de la la Forma destada de		1 . 1 . 1		
Review any changes to the schedule. Ensure that the ch			re	
justified by the operator and the schedule changes were				
jeopardize public safety or environmental protection, as	appropriate	2.		
Review any documentation of cases where OPS was not	tified that th	na ranair schae	ابرام	
could not be met, remediation exceeded the time frames				
safety could not be provided through a reduction in open			anu	
salety could not be provided unough a reduction in open				
Review any documentation of cases for an immediate re	enair condit	ion		
(§195.452(h)(4)(i) where operating pressure was reduce				
shutdown. Verify for an immediate repair condition tha				
pressure was determined in accordance with the formula				
ASME/ANSI B31.4 or, if not applicable, the operator sh			ina	
basis justifying the amount of pressure reduction.	iouiu provid	de an engineer	mg	
basis justifying the amount of pressure reduction.				
Verify that repairs were performed in accordance with §	105 122 an	d the Operato	r'c	
O&M Manual, as appropriate.	193.422 an	d the Operator	1.5	
O&W Manual, as appropriate.				
Review CP readings at anomaly dig site, if possible. (S	ee Part 1 of	this form		
"Field Inspection to Verify adequacy of the Cathodic Pr	otection Sy	estam" as		
appropriate.	occuon sy	sciii, as		
арргориас.				
Other:				
Ouiot.				

Part 3 - Preventive and Mitigative Actions

3A. Installed Leak Detection System Information (Protocol 6.05)	Satisfactory	Unsatisfactory	N/C	Notes:
Identify installed leak detection systems on pipelines				
and facilities that can affect an HCA.				
Document leak detection system components installed o	n system to	enhance		
capabilities, as appropriate.				
Decree with fire and a situation of installed lead detection and a sife				
Document the frequency of monitoring of installed leak detection systems and verify connection of installed components to leak detection monitoring system, as				
appropriate,	υ,	,		
Other:				
3B. Installed Emergency Flow Restrictive Device (Protocol 6.06)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify additional preventive and mitigative actions				
implemented by Operator.				
Document Emergency Flow Restrictive Device (EFRD)	component	t(s) installed o	n	
system.				
Note that EEDD non \$105 450 magne a shock valve on m	masta aantu	al malma aa		
Note that EFRD per §195.450 means a check valve or refollows:	emote contr	or varve as		
(1) Check valve means a valve that permits fluid to	flow freely	in one directi	on	
and contains a mechanism to automatically prevent flow				
(2) Remote control valve or RCV means any valve				
location remote from where the valve is installed. The R	.CV is usua	lly operated b	y	
the supervisory control and data acquisition (SCADA) s			een	
the pipeline control center and the RCV may be by fiber	optics, mic	crowave,		
telephone lines, or satellite.				
Document the frequency of monitoring of installed EFRDs and verify connection of				
installed components to monitoring/operating system, as appropriate.				
Comment on the perceived effectiveness of the EFRD in mitigating the				
consequences of a release on the HCA that it is designed to protect.				
Other:				

Part 4 - Field Investigations (Additional Activities as appropriate)

4A. Field Inspection for Verification of HCA Locations Review HCAs locations as identified by the Operator. Utilize NPMS, as appropriate. Satisfactory Unsatisfactory N/C Unsatisfactory N/C Notes:	
Utilize NPMS, as appropriate.	
Verify population derived HCAs in the field are as they appear on Operator's maps and NPMS, as appropriate. Document newly constructed (within last 2-3 years) population and/or commercial areas that could be affected by a pipeline release, as appropriate. Note that population derived HCAs are defined in §195.450 Verify drinking water and ecological HCAs in the field are as they appear on Operator's maps and NPMS, as appropriate. Document newly established drinking water sources and/or ecological resources areas (within last 2-3 years) that could be affected by a pipeline release. Note that unusually sensitive areas (USAs) are defined in §195.6 Verify commercially navigable waterway HCAs in the field are as they appear on Operator's maps and NPMS, as appropriate. Document are esticity (commercial in	
Operator's maps and NPMS, as appropriate. Document any activity (commercial in nature) that could affect the waterways status as a commercially navigable	
waterway, as appropriate.	
Note that commercially navigable waterway HCAs are defined in §195.450	
4B. Field Inspection for Verification of Anomaly Digs Satisfactory Unsatisfactory N/C Notes:	
Verify repair areas, ILI verification sites, etc.	
Identify anomaly dig sites in the area, if possible, that will not be investigated as part of this field activity (e.g. three other digs to be performed in this area, but not part of this inspection)	
4C. Field Inspection to Verify adequacy of the Cathodic Protection System Satisfactory Unsatisfactory N/C Notes:	
In case of hydrostatic pressure testing, Cathodic Protection (CP) systems must be evaluated for general	
Review records of CP readings from CIS and/or annual survey to ensure minimum	
code requirements are being met, if available.	
Review results of random field CP readings performed during this activity to ensure minimum code requirements are being met, if possible.	
Perform random rectifier checks during this activity and ensure rectifiers are operating correctly, if possible.	
4D. Field inspection for general system characteristics Satisfactory Unsatisfactory N/C Notes:	
Through field inspection determine overall condition of pipeline and associated facilities for a general estimation of the effectiveness of the operator's IMP implementation.	
Visit nearby pump stations, valve settings, aboveground crossings, etc. to ensure	
minimum code requirements are being met, if possible and as appropriate. Evaluate condition of the ROW to ensure minimum code requirements are being	
met, as appropriate.	
Comment on Operator's apparent commitment to the integrity and safe operation of	
their system, as appropriate. Other	